

FILE NO. PIN 13

DATE: July 11, 1995

POLICY INTENT NOTICE

SUBJECT: Lighting System Retrofits

Lighting system retrofits are performed in health care facilities for a variety of reasons, but normally to reduce operation and maintenance costs. The system retrofits typically consist of one or more of the following modifications:

- Ballast and/or lamp replacement.
- Lamp and/or ballast removal.
- Reflector installation.
- Fixture replacement.

When properly performed, system retrofits can lead to improved illumination and reduced energy consumption. However, some retrofit techniques adversely affect the illumination quality. To ensure that the quality of lighting is maintained, Section 517-21(b), California Electrical Code requires that illumination intensity values be as recommended in the latest edition of the Illumination Engineers Society (IES) Handbook.

POLICY:

Lighting system retrofits shall be submitted to the Office for plan review. Such submittals shall include:

1. Lighting calculations in accordance with the latest edition of the IES Handbook. A suggested format is a schedule of rooms to be retrofitted, showing the use of the area, dimensions of the room, height of the work plane, the illuminance recommended by IES, and the predicted illuminance.
2. Plans and specifications signed and stamped by a California registered electrical engineer per Section 7-115(a), 1995 California Building Standards Administrative Code (Part 1, Title 24).
3. A list of the assumptions used in the calculations, including reflectances, depreciation factors, etc.
4. Certified photometrics for each new or modified luminaire, including spacing criteria.
5. Reflected ceiling plan for each area that shows the location of fixtures in each area to be retrofitted.
6. Confirmation that the components to be used in the retrofit are listed, labeled, or certified by a Nationally Recognized Testing Laboratory, in

accordance with OSHPD Code Application Notice 3-110-2; and where fixtures are installed in fire rated ceiling assemblies, each fixture shall be protected to meet the fire rating criteria in Section 710 (Section 4305), 1995 California Building Code.

7. Plans and specifications for any circuiting and switching changes.

The above requirements are waived for one-for-one replacement, lamp and ballast retrofits. In these instances only a key plan, written description and specification are required to be submitted to the Office for review.

ORIGINAL SIGNED

9/16/96

Kurt A. Schaefer

Date